

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE

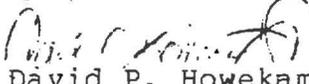
JUNE 25, 1986

Ref: PRO-11

SUBJECT

Adoption of CALINE4 by California Agencies

FROM


David P. Howekamp, Director
Air Management Division, Region 9

TO

Richard G. Rhoads, Director
Monitoring and Analysis Division (MD-14)

BACKGROUND:

In February of this year, Region 9 requested approval of CALINE4 in the development of State Implementation Plans in Arizona. Based on discussions between OAQPS, OMS and our office, an interim position was developed which defaulted CALINE4's dispersion algorithm to CALINE3 and modified its emission module to a Volume 9 format. Validation of the altered CALINE4 with monitored data is currently being undertaken in Phoenix. Validation of the unmodified model is presented in the users' guide.

ISSUES:

The model's developer, the California Department of Transportation (CALTRANS) did not concur with EPA's modifications. Andrew Ranzieri, Manager of the California Air Resources Board's (CARB) Air Quality Modeling Section supports the use of CALINE4 dispersion methodology while having concerns on the ability to collect data for the needed sigma theta inputs. Richard Schoenberg of FHWA's Noise and Analysis Division has confirmed FHWA's approval of CALINE4 for NEPA applications in California. The Region believes that CALINE4 has performed well in validation studies and, with the worst case wind angle and the intersection link type operations, is more versatile than CALINE3.

ACTION:

On August 1, CALTRANS will be officially adopting CALINE4 to assess air quality impact from transportation sources. Region 9 is requesting that the Model Clearinghouse coordinate with the Environmental Operations Branch and the Office of Mobile Sources to conduct a formal model evaluation of the unadulterated CALINE4. The Region is particularly interested in the quantification of worst case scenarios where on-site sigma theta data is unavailable. Results and recommendations of your evaluation will be used as guidance if any CALINE4 analyses are submitted to the Region in the future.

CONTACTS:

CALTRANS has asked that questions regarding CALINE4 be directed to Paul Benson (916/739-2459) of their Office of Transportation Laboratory. Questions for the Region should be directed to Craig Fitzner at FTS 454-7659.

Enclosure

cc: (w/o attachments)

Andrew Ranzieri, CARB
Paul Benson, CALTRANS
Charles Gray, OMS/A²
Richard Schoenberg, FHWA
Ray Vogel, OAQPS/CPDD
Mark Wolcott, OMS/A²